ISC-CH F 560 (3/2017) Previous editions are obsolete.

DOE NEPA Tracking Number

## U. S. DEPARTMENT OF ENERGY, OFFICE OF SCIENCE INTEGRATED SUPPORT CENTER—CHICAGO OFFICE

# NATIONAL ENVIRONMENTAL POLICY ACT (NEPA) ENVIRONMENTAL EVALUATION NOTIFICATION FORM

To be completed by "Applicant," I.e., organization receiving funds and/or Implementing Federal Actions as defined by 40 CFR § 1508.18. For assistance, refer to "Instructions for Preparing ISC-CH F-560, Environmental Evaluation Notification Form."

Solicitation/Award No. (If applicable): DE -SC0019831

Organization Name: Southeastern Biochemicals, Incorporated

Proposed Action Title: Production\_of\_Platform\_Chemicals\_by\_Bioconversion\_of\_Plastic\_Waste

Total DOE Funding/Total Funding: \$205,877

### I. <u>Project Description:</u> (Use explanation pages if additional space is required)

#### A. Proposed Project/Action (if applicable, delineate Federally funded/Non-Federally funded portions)

The bulk of post-consumer plastics ends up in landfills or in the environment. In principle, most discarded plastics can be recycled. In practice, the standard approaches generally yield materials that are of lower quality than the initial product, resulting in "downcycling", or a loss of value. In contrast, we are developing a bioconversion process can upcycle plastic waste, yielding value-added biochemicals and other biological products. Success in this project will reduce the plastic waste entering landfills and bodies of water, thus improving the environment.

B. Would the project proceed without Federal funding?

### If "yes," use explanation page.

II. Description of Affected Environment; (Use explanation pages if additional space is required)

Plastic waste affects the environment when it is discarded in the oceans and when it is sent to landfills.

Yes

п

No

 $\overline{\mathbf{V}}$ 

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Prelimir	hary Questions:	Yes	No
A. <u>Is</u>	the DOE-funded work routinely administrative or entirely advisory or a "paper study?"	Ŭ	V
lf	'Yes", ensure that the description in Section I reflects this and go directly to Section	<b>v</b> .	
B. <u>Is</u>	there any potential whatsoever for: (Provide an explanation for each "Yes" response)		
1.	Work to be performed outdoors?		$\overline{\mathbf{v}}$
2. 3.	Major modification of a building interior? Threat of violation of applicable statutory, regulatory, or permit requirements for	H	⊻
5.	environment, safety, and health?		<u>IV</u>
4.	Siting, construction or major expansion of waste treatment, storage, or disposal		¥
5.	facilities? Disturbance to hazardous substances, pollutants, or contaminants preexisting in the		V
	environment?		
6.	The presence of any environmentally-sensitive resources?		
7.	Any potential whatsoever for high consequence impacts to human health or the environment?	V	
8.	The work being connected to another existing/proposed activity that could		V
9.	potentially create a significant impact? Nearby past, present, and/or reasonably foreseeable future actions such that	$\overline{\mathbf{A}}$	L
5.	collectively significant impacts could result?		5
10	. Scientific or public controversy, uncertainty over potential impacts, or conflicts regarding resource usage?		Z
	"No" to ALL Section III.B. questions, go directly to Section V.		
Potenti	al Environmental Effects: (Provide an explanation for each "Yes" response)		
	vironmentally Sensitive Resources: Could the proposed action potentially result in changes sturbances to any of the following resources?		
1.	Threatened/Endangered Species and/or Critical Habitats	Yes	NO
2.	Other Protected Species (e.g., Burros, Migratory Birds, Pollinators)		নাবাবাবাবাবাবাব
3.	Sensitive Environments (e.g., Tundra/Coral Reefs/Rain Forests)		$\mathbf{\nabla}$
4.	Cultural or Historic Resources	H	¥
5. 6.	Important Farmland Non-Attainment Areas for Ambient Air Quality Standards	H	Ĕ
7.	Class I Air Quality Control Region	Ħ	17
8.	Special Sources of Groundwater (e.g. Sole Source Aquifer)	d	V
9.	Navigable Air Space		$\overline{\mathbf{V}}$
	Coastal Zones		V
1 <b>1</b> 12		Ц	V
B. Re	equilated Substances/Activities: Would the proposed action involve any of the following requ	ilated Itr	ams c

<u>Regulated Substances/Activities: Would the proposed action involve any of the following regulated Items or activities?</u>

13.	Natural Resource Damage Assessments	$\checkmark$
14.	Invasive Species or Exotic Organisms	$\checkmark$
15.	Noxious Weeds	$\checkmark$
16.	Clearing or Excavation greater than one acre or Removal of Trees Governed by	$\checkmark$
	Local Requirement	
17.	Dredge or Fill (under Clean Water Act, Section 404, greater than one acre)	$\checkmark$

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	В.	equilated Substances/Activities: Would the proposed action involve any of the following regulated items or tivities? (continued)			<u>ns or</u>	
	C.	activities? (continued)         18.       Nolse (in excess of regulations)         19.       Asbestos Removal         20.       Polychlorinated biphenyls (PCBs)         21.       Import, Manufacture, or Processing of Toxic Substances         22.       Chemical Storage/Use         23.       Pesticlde Use         24.       Hazardous, Toxic, or Criteria Pollutant Air Emissions         25.       Liquid Effluents         26.       Spill Prevention/Surface Water Protection         27.       Underground Injection         28.       Hazardous Waste         29.       Underground Storage Tanks         30.       Radioactive or Radioactive Mixed Waste         31.       Radiation Exposure         32.       Nanoscale Materials         33.       Genetically Engineered Microorganisms/Plants or Synthe         34.       Ozone Depleting Substances         35.       Greenhouse Gas Generation/Sustalnability         36.       Off-Road Vehicles         37.       Biosafety Level 3-4 Laboratory         38.       Research on Human Subjects or other Vertebrate Anima         39.       Facility footprint exceeds 5,000 Square Feet         Other Relevant Information: Would the proposed action involve	etic Biology als <sup>-</sup> t <u>he followir</u> w Income F	y? ng? Populations	Yes Yes Yes	
		<ol> <li>Subject to an Existing Institutional Work Planning and Co</li> <li>Other Pertinent Information Which Could Impact Human</li> </ol>			8	$\mathbf{\nabla}$
V,	Doe	blicant Certification that to the best of their knowledge all information as this disclosure contain classified, confidential, or other exempt in be obligated to disclose pursuant to the Freedom of Information A Organization Official (Name and Title):	nformation		<u>curate</u> : Yes □	No ☑
		Signature: Allon Overcash	Date:	June 4, 2019	-	
		e-mail: aovercash@sebcinc.com		770.757.93	56	
	В.	Optional Secondary Approval (Name and Title):				
		Signature:	_ Date:			
		e-mail:	Phone:			

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# Remainder to be completed by DOE

VI.	DOE	Concurrence/Recommendation/Determination:
	A.	DOE Project Director/Program Manager or Contract/Grant Management Specialist:
		Has the Applicant completed the Form correctly?
		Name and Title: Walter Strzeption, Contract Specialist Signature: Walter Stezeption Date: 6/6/19
	В.	DOE NEPA Team Review (If requested):
		Is the class of action Identified In the DOE NEPA Regulations (Appendices A-D to Subpart D (10 CFR § 1021))? If ves, specify the class(es) of action: <u>B36351</u>
		Name and TRie Peter Sieboch, NCO
		Signature: Date: 6/6/19
	C.	DQE Counsel (if requested):
		Name and Title:
		Signature: Date:
	D.	DOE NEPA Compliance Officer:
		preceding pages are a record of documentation required under DOE Final NEPA Regulation, 10 CFR § .400.
)	Ø₽	Action may be categorically excluded from further NEPA review. I have determined that the proposed action meets the requirements for Categorical Exclusion referenced above.
		Action requires approval by Head of the Field Organization. Recommend preparation of an Environmental Assessment.
		Action requires approval by Head of the Field Organization or a Secretarial Officer. Recommend preparation of an Environmental Impact Statement.
		Comments/limitations if any:
		NEPA Compliance Officer:
		Name: Reter R Sieboeh
		Signature: Date: 6/6/2019

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Optional Additional Narrative: (add additional detail to description to Sections I and II or explanations to responses in Sections III and IV.

Reference questions B7, B9 The foreseeable impact of this project will be to benefit the environment by reducing the flow of plastic waste into the oceans and landfills. This project will upcycle the plastic waste into biochemicals that will be sold in the commodity chemical market.

Explanation Page 1